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(71)Applicant : NISSAN MOTOR CO LTD

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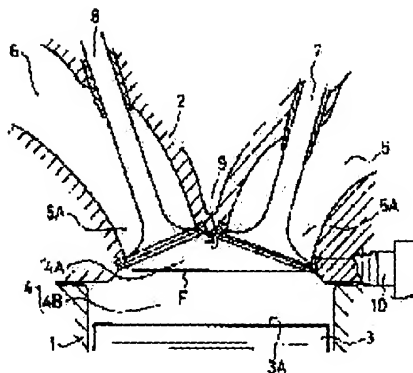
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(54) DIRECT INJECTION TYPE SPARK IGNITION INTERNAL COMBUSTION ENGINE

(57)Abstract:

PURPOSE: To quickly realize stratification of air-fuel mixture by supplying fuel into a combustion chamber while preventing a fuel droplet from adhering to a piston or the like and forming a wall flow.

CONSTITUTION: A fuel injection valve 10 disposed on the lower side of a cylinder head 2 injects fuel through a pair of jet orifices obliquely bored on the forward end side thereof when it reaches the vicinity of ignition timing. Fuel jetted from one jet orifice and fuel from the other jet orifice collide with each other to be atomized and form flat fuel spray F which is substantially horizontal to the crown surface 3A of a piston 3 and spread substantially fan-like. The flat fuel spray F is quickly gasified to form air-fuel mixture. The air-fuel mixture is pushed up to the spark plug 9 side by the piston 3 to realize stratification.



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